

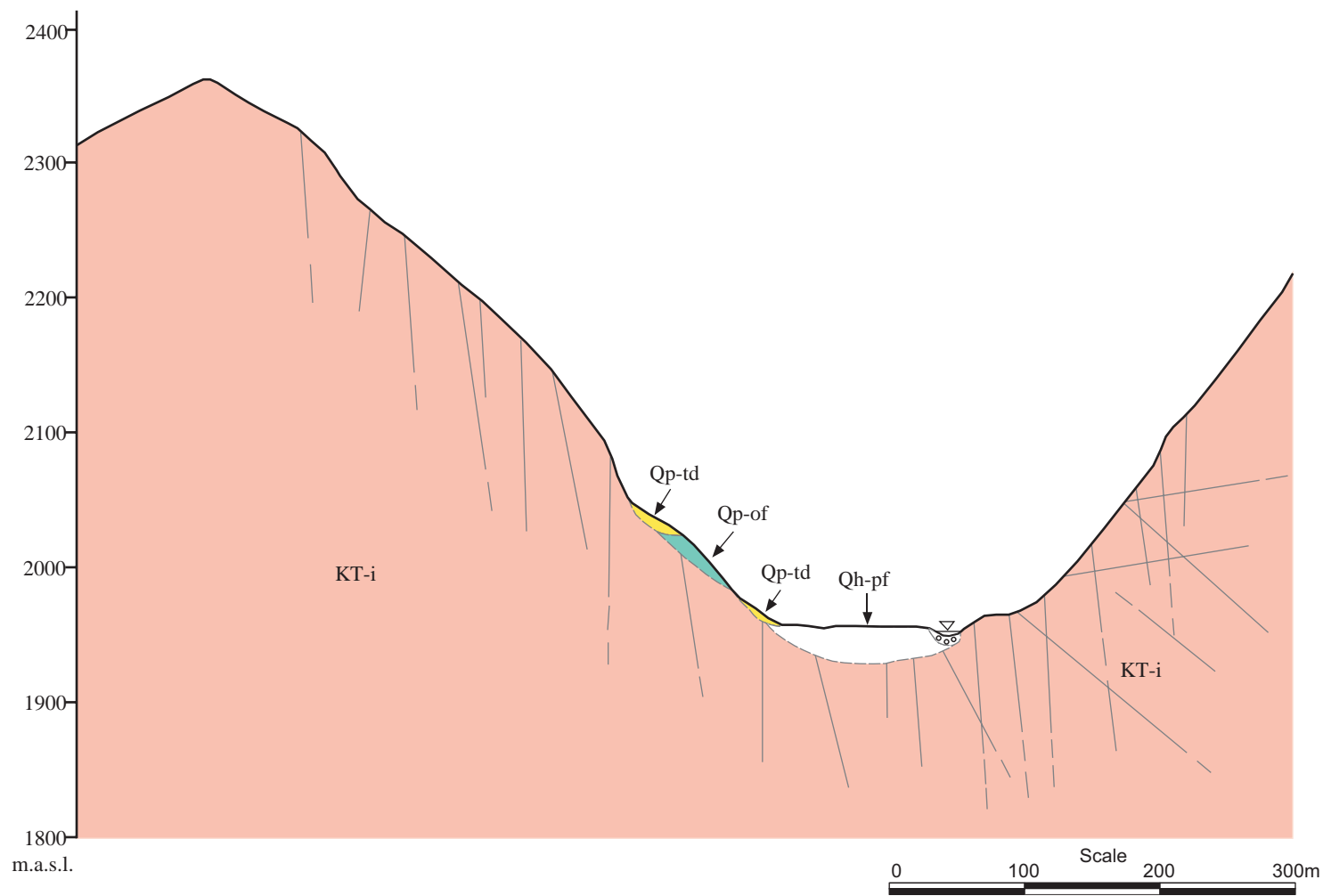
LEGEND

Era	Period	Geol.	Stratigraphic Unit	Symbol	Lithologic Component	Remarks
Cenozoic	Quaternary	Holocene	Present fluvial deposit	Q1-pr	Fill, boulders, gravel, sand and silt	Deposited in the bed of the Canete River channel in the high flood plain and low terrace. Fluvial material is generally in place and coarse over the step section.
			Alluvial deposit	Q1-ad	Gravel, rubble, sand and silt	Alluvial cone is the predominant feature showing a fan form in the flood plain and moderate slope. Heterogeneous material accumulated by the debris flow.
			Talus deposit	Q1-tl	Rubble, sand and silt	Colluvial deposit is the common form distributed in the base of the slope and on the alluvial fan. Heterogeneous material with no stratification.
	Pleistocene		Terrace deposit	Qp-tl	Gravel, sand, silt and clay	Sporadic distribution on both slopes at 2 levels (2000 to 2065m, 2080 to 2145m) with stratification. Some terraces are covered by talus deposit.
			Old fluvial deposit	Qp-ef	Gravel, sand, and silt	Old fluvial deposit on both slopes with stratification and alluvial.
			Fluvioglacial and/or Glacial deposit	Qp-gf / Qp-gl	Fill, boulders, gravel, sand and silt	Semi-hard heterogeneous material composed of boulders with stratification. Some degree of stratification is seen in the fluvioglacial deposit.

Intrusive Rocks					
Period	Unit	Symbol	Lithologic Component	Remarks	
Upper Cretaceous - Lower Tertiary	Andean Batholith	KT-I	Granodiorite, diorite and tonalite	Granodiorite is the main component, and shows a wide, slightly oriented or vertical granodiorite commonly symmetrical.	

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Figure S.2.4.1.3 Geological Map of Auco Dam Site



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Figure S.2.4.1.4 Geological Section of Auco Dam Site

Figure S.2.4.1.5 Geological Map of San Jeronimo Dam Site

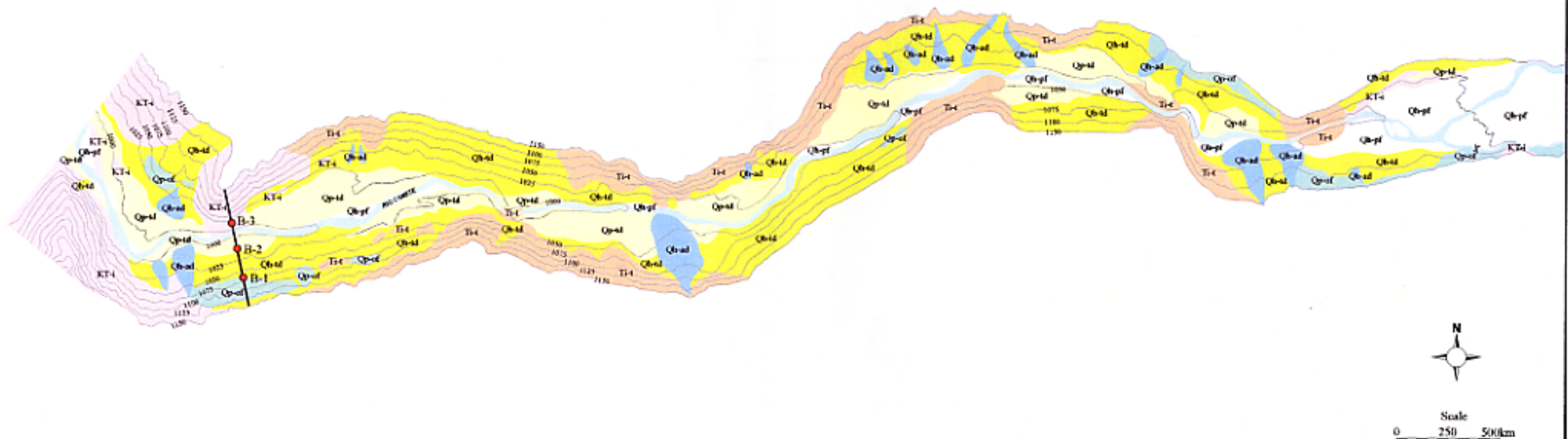
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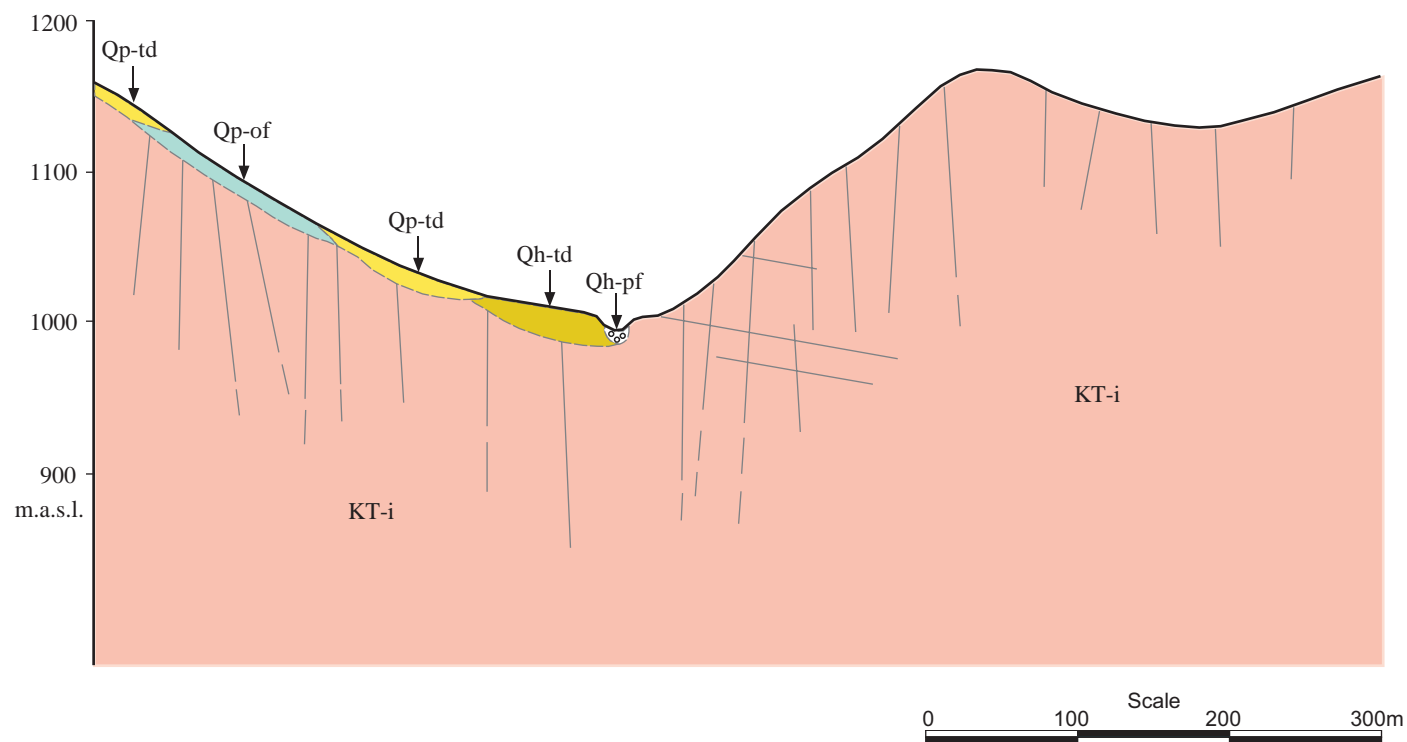
Era	Period	Soils	Stratigraphic Unit	Symbol	Lithologic Component	Remarks
Cenozoic	Quaternary		Present fluvial deposit	Qb-pl	Block, gravel, sand and silt	Deposit distributed along the Caran River channel including flood plain and low terrace. Large amount of the deposit is present around Catahuasi village which comes from the tributaries.
			Alluvial deposit	Qb-ad	Gravel, rubble, sand and silt	Alluvial cone is the predominant feature showing fan form in the river mouth and moderate slope. Heterogeneous materials transported by surface water during heavy rainfall.
			Talus deposit	Qb-tl	Rubble, sand and silt	Colluvial deposit is the common form distributed in the base of slope and concave alignment. Heterogeneous materials without stratification.
			Terrace deposit	Qp-tl	Gravel, sand, silt and clay	Continuous distribution on both slopes ranging in altitude from 990m to 1,335m. Some terraces are covered by talus deposits and alluvial cones.
			Old fluvial deposit	Qp-of	Gravel, sand, and silt	Overlying thin deposit on slope with stratification and lamination.
	Tertiary	Lower	Tactara Formation	Tt-1	Andesite, dacite, rhyolite and rhyodacite	Dark gray andesite rock is main component which is hard, superficially weathered and fractured. Light gray rhyolite and rhyodacite are easily interbedded.

Intrusive Rocks

Period	Unit	Symbol	Lithologic Component	Remarks
Upper Cretaceous - Lower Tertiary	Andean Batholith	KT-1	Granodiorite, diorite and tonalite	Granodiorite is main component and shows hard, slightly or free of weathering and variable joints.

● Proposed Boring Point



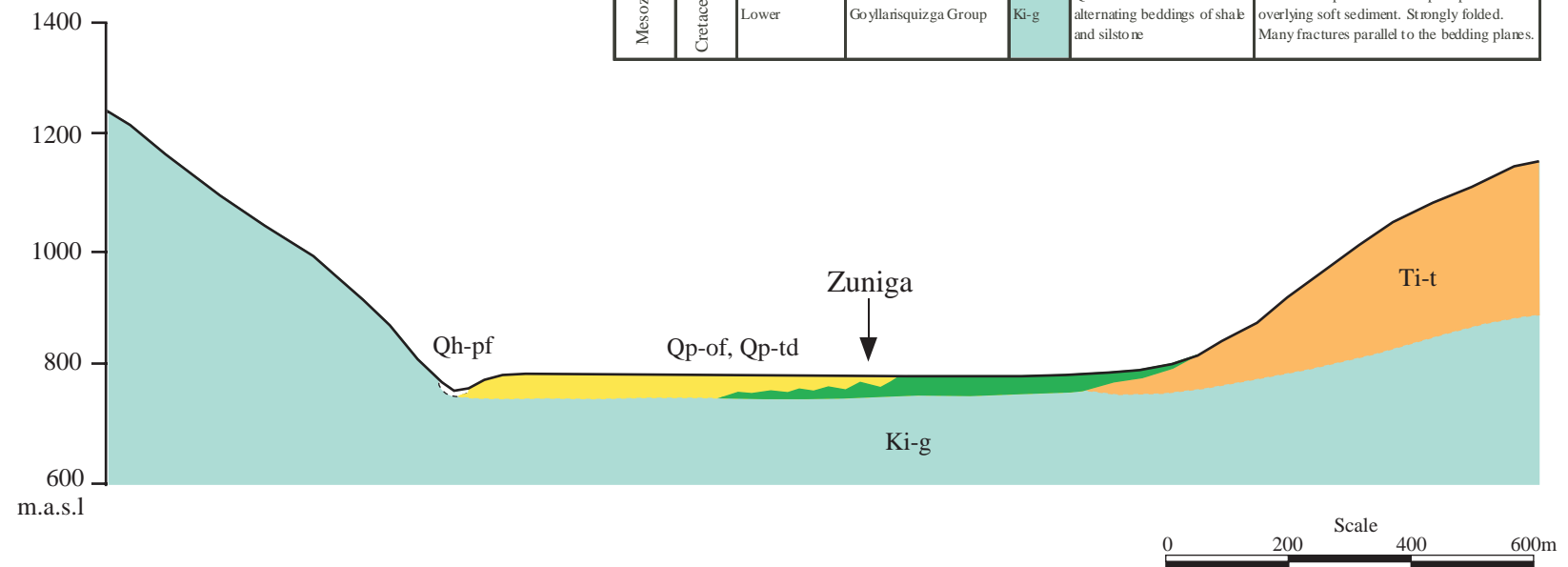


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Figure S.2.4.1.6 Geological Section of San Jeronimo Dam Site

LEGEND

Era	Period	Series	Stratigraphic Unit	Symbol	Lithologic Component	Remarks
Cenozoic	Quaternary	Holocene	Present fluvial deposit	Qh-pf	Block, gravel, sand and silt	Deposit distributed along the Cañete River channel including small flood plain and low terrace.
		Pleistocene	Terrace deposit	Qp-td	Gravel, sand, silt and clay	Large distribution on the right margin about 800-850m in high. Many boulders are distributed on the terraces.
			Old fluvial deposit	Qp-of	Gravel, sand, and silt	Possibly overlying deposit on the gentle slope.
	Tertiary	Lower	Tantará Formation	Ti-t	Andesitic lava	Dark gray andesitic rock is main component which is hard, superficially weathered and fractured.
Mesozoic	Cretaceous	Lower	Goyllarisquiza Group	Ki-g	Quartziferous sandstone with alternating beddings of shale and siltstone	Hard outcrop forms the steep slope free of overlying soft sediment. Strongly folded. Many fractures parallel to the bedding planes.



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Figure S.2.4.1.7 Geological Section of Zuniga Intake Site

LEYENDA

Era	Period	Serie	Stratigraphic Unit	Symbol	Lithologic Component	Remarks
Cenozoic	Quaternary	Holocene	Present fluvial deposit	Qh-pf	Block, gravel, sand and silt	Deposit distributed in river channel, flood plain and low terrace.
			Alluvial deposit	Qh-ad	Gravel, rubble, sand and silt	Alluvial cone is the predominant feature showing fan form in the rivermouth and moderated slope. Heterogeneous materials accumulated by principally debris flow.
			Talus deposit	Qh-td	Rubble, sand and silt	Colluvial deposit is the common form distributed in the base of slope and concave alignment. Heterogeneous materials.
	Pleistocene		Terrace deposit	Qp-td	Gravel, sand, silt and clay	Spodadic distribution in both slope sides. Some terraces are covered by alluvial cones.

Intrusive Rocks

Period	Unit	Symbol	Lithologic Component	Remarks
Upper Cretaceous - Lower Tertiary	Andean Batholith	KT-i	Granodiorite and diorite	Granodiorite is main component, and shows hard, slightly or free of weathering and joints.

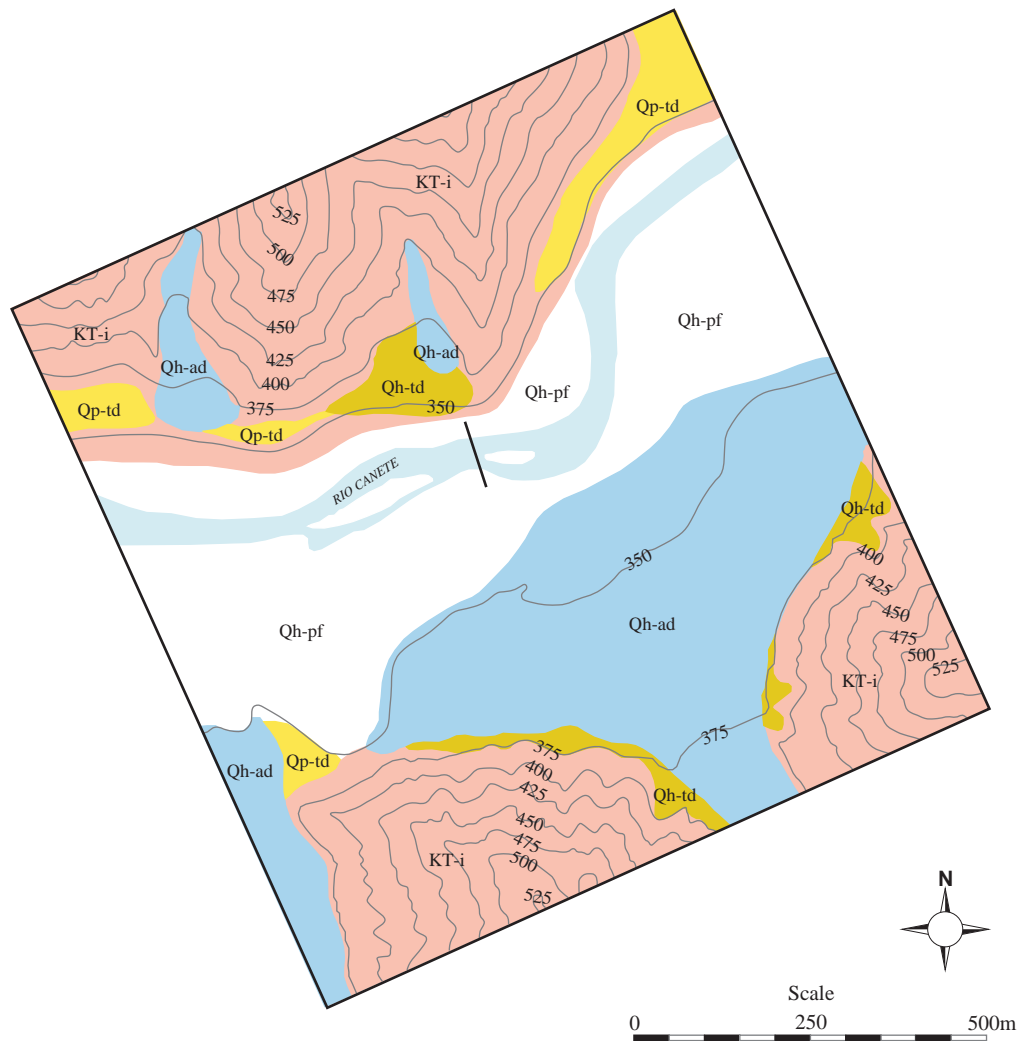


Figure S.2.4.1.9 Geological Section of Socsi Intake Site

